Amendments to the Claims:

- (Currently amended) A process for the preparation of the α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[4-pyridin-3-yl)pyrimidin-2-ylamino]phenyl]benzamide comprising:
 - a) carrying out an acid addition reaction using not more than 0.99 equivalents of methanesulfonic acid per 1 equivalent of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide, in a solvent selected from the group consisting of C₂-C₆ aliphatic alcohols and the mixtures thereof, optionally with the addition of a C₁-C₄ aliphatic alcohol;
 - b) optionally adding a solvent selected from the group consisting of esters formed from a C₁-C₄ aliphatic alcohol and formic acid, acetic acid, or propionic acid;
 - c) optionally inoculating the reaction mixture with the α-crystal form;
 - d) stirring the reaction mixture for the time necessary for crystallization of the α-crystal form; and
 - e) isolating the α-crystal form from the reaction mixture,

wherein said α -crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture shows an X-ray powder diffraction pattern that is characterized by having peaks at 2θ angles of approximately; 4.9; 18.6; 19.1; 23.2 and 28.6°.

 (Original) The process according to claim 1 in which the acid addition reaction is carried out using from 0.95 to 0.99 equivalents of methanesulfonic

- acid per 1 equivalent of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl] benzamide.
- (Previously presented) The process according to claim 1, in which the acid
 addition reaction is carried out in an alcohol selected from the group
 consisting of n-propyl alcohol, isopropyl alcohol, n-butyl alcohol, tert-butyl
 alcohol, and the mixtures thereof with ethyl alcohol.
- (Previously presented) The process according to claim 1, in which the acid addition reaction is carried out in a mixture of solvents containing from 0 to 50% of ethyl alcohol and from 50 to 100% of n-propyl alcohol (v/y).
- (Previously presented) The process according to claim 1 in which the acid addition reaction is carried out in the mixture of solvents containing from 0 to 50% of ethyl alcohol and from 50 to 100% of isopropyl alcohol (v/v).
- (Previously presented) The process according to claims 1 in which the acid addition reaction is carried out in a mixture of solvents containing from 0 to 50% of ethyl alcohol and from 50 to 100% of n-butyl alcohol (v/v).
- (Previously presented) The process according to claims 1 in which the acid addition reaction is carried out in a mixture of solvents containing from 0 to 50% of ethyl alcohol and from 50 to 100% of tert-butyl alcohol (v/v).
- (Currently amended) A process for the preparation of the α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[4-pyridin-3-yl)pyrimidin-2-ylamino]phenyl]benzamide comprising:
 - a) carrying out an acid addition reaction using 1 equivalent of methanesulfonic acid per 1 equivalent of 4-(4-methylpiperazin-1-

- ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide in the ethyl alcohol, optionally with the addition of a C_1 - C_4 aliphatic alcohol;
- adding a solvent selected from the group consisting of esters formed from a C₁-C₄ aliphatic alcohol and formic acid, acetic acid, or propionic acid;
- inoculating the reaction mixture with the α-crystal form;
- d) stirring the reaction mixture for the time necessary for crystallization of the α-crystal form; and
- e) isolating the α-crystal form from the reaction mixture,

wherein said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture shows an X-ray powder diffraction pattern that is characterized by having peaks at 2θ angles of approximately; 4.9; 18.6; 19.1; 23.2 and 28.6°.

- (Previously presented) The process according to claim 8 wherein said C₁-C₄
 aliphatic alcohol is methyl alcohol or isopropyl alcohol, and the proportion of
 said C₁-C₄ aliphatic alcohol to other solvents present in the reaction mixture
 do not exceed 55% (v/v).
- 10. (Previously presented) The process according to claim 1 in which the acid addition reaction is carried out with stirring while maintaining the internal temperature of the reaction mixture within the range from room temperature to boiling temperature.

11-12. (Canceled)

13. (Currently amended) The process according to claim 1 in which said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture shows an X-ray powder diffraction pattern that is characterized by having peaks of relative intensity over 20% at 2θ angles of approximately: 4.9. 10.5; 14.9; 16.5; 17.7; 18.1; 18.6; 19.1; 21.3; 21.6; 22.7; 23.2; 23.8; 24.9; 27.4; 28.0 and 28.6°, the relative intensity being determined with respect to the most intense peak by peak height, the peak height expressing a number of counts per second.

14-23. (Canceled).

- 24. (Previously presented) The process according to claim 2, in which the acid addition reaction is carried out in an alcohol selected from the group comprising n-propyl alcohol, isopropyl alcohol, n-butyl alcohol, tert-butyl alcohol and the mixtures thereof with ethyl alcohol.
- (Previously presented) The process according to claim 2 in which the addition reaction is carried out in the mixture containing from 0 to 50% of ethyl alcohol and from 50 to 100% of n-propyl alcohol (v/v).

26-27. (Canceled)

28. (Currently amended) The process according to claims 2 in which said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture shows an X-ray powder diffraction pattern that is characterized by having peaks at 2θ

angles of approximately: <u>4.9.</u> 10.5; 14.9; 16.5; 17.7; 18.1; 18.6; 19.1; 21.3; 21.6; 22.7; 23.2; 23.8; 24.9; 27.4; 28.0 and 28.6°.

29. (Previously presented) The process according to claim 8 in which the acid addition reaction is carried out with stirring while maintaining the internal temperature of the reaction mixture within the range from room temperature to boiling temperature.

30-31. (Canceled)

32. (Currently amended) The process according to claim 8 in which said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl))pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture shows an X-ray powder diffraction pattern that is characterized by having peaks of relative intensity over 20% at 2θ angles of approximately: 4.9, 10.5; 14.9; 16.5; 17.7; 18.1; 18.6; 19.1; 21.3; 21.6; 22.7; 23.2; 23.8; 24.9; 27.4; 28.0 and 28.6°, the relative intensity being determined with respect to the most intense peak by peak height, the peak height expressing a number of counts per second.

33-36. (Canceled)

37. (Previously presented) The process of claim 8 wherein said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture contains not more than 2% w/w of the β-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide.

38. (Previously presented) The process of claim 37 wherein said α-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide isolated from the reaction mixture contains not more than 1% w/w of the β-crystal form of the methanesulfonic acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]benzamide.